

U.S. DEPARTMENT OF COMMERCE, PATENT AND TRADEMARK OFFICE		DATE: May 19, 2005
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. Application No. (if known): 10/535450
INTERNATIONAL APPLICATION NO.: PCT/JP2003/006282	INTERNATIONAL FILING DATE: May 20, 2003	PRIORITY DATE CLAIMED: November 22, 2002
TITLE OF INVENTION: TRANSITION-METAL CHALCOGENIDE CRYSTAL WITH TOPOLOGICAL STRUCTURE AND METHOD FOR FORMING SAME		
APPLICANT(S) FOR DO/EO/US: Satoshi TANDA, Taku TSUNETA, Yoshitoshi OKAJIMA, Katsuhiko INAGAKI, Kazuhiko YAMAYA and Noriyuki HATAKENAKA		
Applicant hereby submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 USC 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)): <ul style="list-style-type: none"> a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) </p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
ITEMS 11. TO 20. BELOW CONCERN OTHER DOCUMENT(S) OR INFORMATION INCLUDED:		
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98 together with the international search report, PTO/SB/08 and 3 documents.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. ASSIGNEE NAME AND ADDRESS: JAPAN SCIENCE AND TECHNOLOGY AGENCY, Kawaguchi-shi, Japan Please publish the assignee data with the application.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 C.F.R. 1.76</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 C.F.R. 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information: 2 sheets of drawings. (Black and white photographs).</p>		

U.S. APPLICATION NO. (if known) 107535450	INTERNATIONAL APPLICATION NO. PCT/JP2003/006282	DATE: May 19, 2005																																																					
21. <input checked="" type="checkbox"/> The following fees are submitted:		CALCULATIONS PTO USE ONLY																																																					
Basic National Stage Fee		\$ 300.00																																																					
National Stage Search Fee		\$ 500.00																																																					
National Stage Examination Fee		\$ 200.00																																																					
ENTER APPROPRIATE BASIC FEE AMOUNT =		\$ 1,000.00																																																					
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$ 130.00																																																					
<table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> </tr> </thead> <tbody> <tr> <td>TOTAL</td> <td>8 -20 =</td> <td></td> <td>X \$ 50.00</td> </tr> <tr> <td>INDEPENDENT</td> <td>2 - 3 =</td> <td></td> <td>X \$ 200.00</td> </tr> <tr> <td colspan="2">Multiple dependent claims(s) (if applicable)</td> <td></td> <td>+ \$360.00</td> </tr> <tr> <td colspan="2">TOTAL OF ABOVE CALCULATIONS =</td> <td colspan="2">\$ 1,130.00</td> </tr> <tr> <td colspan="4">National Stage Application Size Fee-for each additional 50 sheets that exceeds 100 sheets \$ 250.00.</td> </tr> <tr> <td colspan="4">Reduction by 1/2 for filing by small entity, if applicable. (Note 37 CFR 1.9, 1.27, 1.28).</td> </tr> <tr> <td colspan="2">SUBTOTAL =</td> <td colspan="2">\$ 1,130.00</td> </tr> <tr> <td colspan="4">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +</td> </tr> <tr> <td colspan="2">TOTAL NATIONAL FEE =</td> <td colspan="2">\$ 1,130.00</td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +</td> </tr> <tr> <td colspan="2">TOTAL FEES ENCLOSED =</td> <td colspan="2">\$ 1,130.00</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be: refunded charged</td> <td>\$ \$</td> </tr> </tbody> </table>				CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	TOTAL	8 -20 =		X \$ 50.00	INDEPENDENT	2 - 3 =		X \$ 200.00	Multiple dependent claims(s) (if applicable)			+ \$360.00	TOTAL OF ABOVE CALCULATIONS =		\$ 1,130.00		National Stage Application Size Fee-for each additional 50 sheets that exceeds 100 sheets \$ 250.00.				Reduction by 1/2 for filing by small entity, if applicable. (Note 37 CFR 1.9, 1.27, 1.28).				SUBTOTAL =		\$ 1,130.00		Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +				TOTAL NATIONAL FEE =		\$ 1,130.00		Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				TOTAL FEES ENCLOSED =		\$ 1,130.00				Amount to be: refunded charged	\$ \$
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<p>a. <input checked="" type="checkbox"/> A check in the amount of <u>\$ 1,130.00</u> to cover the above fees is enclosed. (\$300.00 for basic national stage fee; \$500.00 for national stage search fee; \$200.00 for national stage examination fee and \$130.00 for late filing of the declaration).</p> <p>b. Please charge my Deposit Account No. 50-2866 in the amount of \$ to cover the above fees. (A duplicate copy of this sheet is enclosed.)</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2866.</p>																																																							
<p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed to request that the application be restored to pending status.</p>																																																							
Send All Correspondence To:		WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 Connecticut Avenue, N.W. Suite 700 Washington, D.C. 20036 CUSTOMER No. 38834																																																					
Typed or Printed Name: Sadao Kinashi		Reg. No.: 48,075																																																					
Signature 		Date: May 19, 2005																																																					

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